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ABSTRACT OF THE DISCLOSURE

a An electron beam apparatus ^{includes} ~~comprises~~ an
electron source having an electron-emitting device, an
electrode for controlling an electron beam emitted from
5 the electron source, a target to be irradiated with an
electron beam emitted from the electron source and a
spacer arranged between the electron source and the
electrode. The spacer has a semiconductor film on the
surface thereof that is electrically connected to ^{the} ~~said~~
10 electron source and ^{the} ~~said~~ electrode.

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